



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Rains & Williamson Oil Co., Inc. Lease & Well No. Burns #1
Elevation 2372 Kelly Bush. Formation Mississippi Effective Pay - Ft. Ticket No. 24970
Date 12-10-77 Sec. 29 Twp. 21S Range 23W County Hodgeman State Kansas
Test Approved by Harvey Gough Western Representative Ken Metzler
Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 4602' to 4619' Total Depth 4619'
Size Main Hole 7 7/8 Rat Hole 12 1/4 Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Top Packer Depth 4597 Ft. Size 6 3/4 Bottom Packer Depth 4602 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth - Ft. Size -
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 17 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 4610 Ft. Clock No. 6893 Depth 4613 Ft. Clock No. 5665
Top Make Kuster Cap. 4200 No. 3354 ~~Outside~~ Inside Bottom Make Kuster Cap. 4150 No. 2605 ~~Inside~~ Outside
Below Straddle: Depth - Rec. No. - Clock No. - ~~Outside~~ Inside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside
Time Set Packer 9:27P M
Tool Open I.F.P. From 9:30 M. to 10:00 M. - Hr. 30 Min. From (B) 42 P.S.I. To (C) 33 P.S.I.
Tool Closed I.C.I.P. From 10:00 M. to 10:30 M. - Hr. 30 Min (D) 62 P.S.I.
Tool Open F.F.P. From 10:30 M. to 11:00 M. - Hr. 30 Min. From (E) 46 P.S.I. To (F) 41 P.S.I.
Tool Closed F.C.I.P. From 11:00 M. to 11:30 M. - Hr. 30 Min. (G) 75 P.S.I.
Initial Hydrostatic Pressure (A) 2422 P.S.I. Final Hydrostatic Pressure (H) 2342 P.S.I. Maximum Temp. 127

INFORMATION

BLOW Very weak blow dead in 28 minutes on initial flow period. Flushed tool after 5 minutes
on second flow period, dead blow.

Did Well Flow - Yes ☒ No ☐ Recovery Total Ft. 30' mud (no show)

Reversed Out - Yes ☒ No ☐ Mud Type Starch Viscosity 43 Weight 9.3 Water Loss 8.4 cc. Chlorides 28,000 ppm

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Rains & Williamson Rig #7 Length Drill Pipe 3695 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In

Length Weight Pipe 691 Ft. I.D. Weight Pipe 2.76 In. Tool Joint Size 4 1/2 IF In. Length Drill Collars 31 Ft. I.D. Drill Collars 2.26 In

Tool Joint Size 4H-90 In. Length D.S.T. Tool 35 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 12-10-77

Test Ticket No. 24970

Recorder No. 3354

Capacity 4200

Location 4610 Ft.

Clock No. 6893

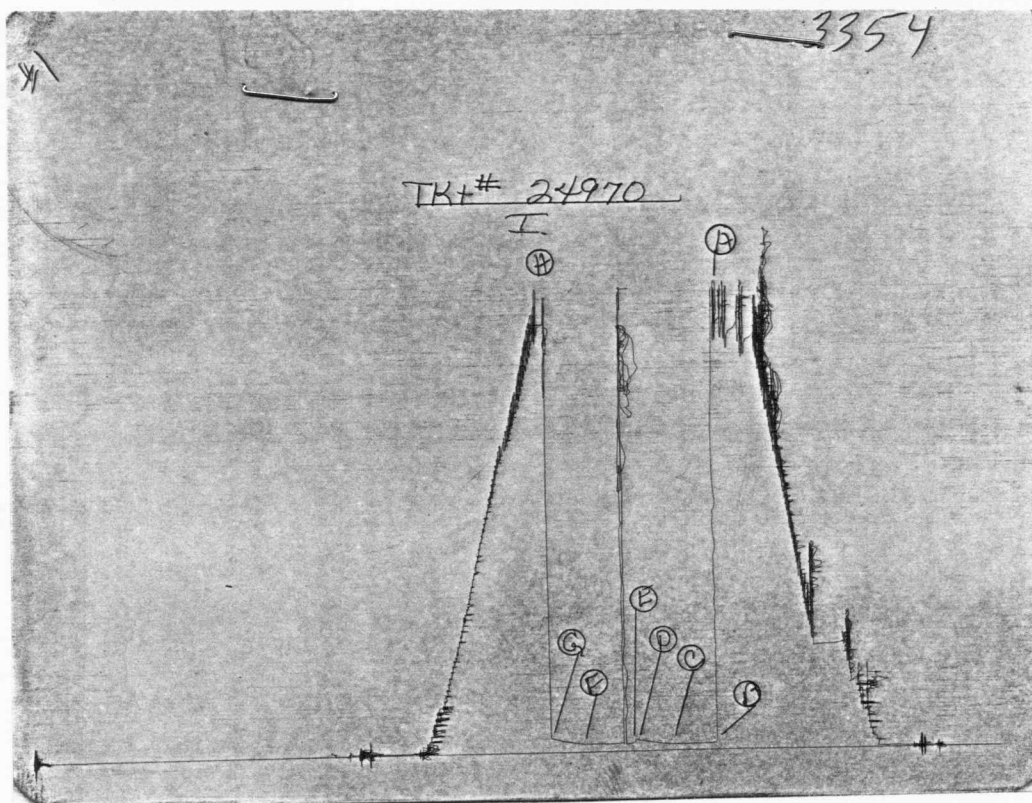
Elevation 2372 Kelly Bushing

Well Temperature 127 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2422</u>	P.S.I.	<u>9:27P</u>	<u>M</u>
B First Initial Flow Pressure	<u>42</u>	P.S.I.	<u>30</u>	<u>Mins. 30</u>
C First Final Flow Pressure	<u>33</u>	P.S.I.	<u>30</u>	<u>Mins. 27</u>
D Initial Closed-in Pressure	<u>62</u>	P.S.I.	<u>30</u>	<u>Mins. 35</u>
E Second Initial Flow Pressure	<u>46</u>	P.S.I.	<u>30</u>	<u>Mins. 27</u>
F Second Final Flow Pressure	<u>41</u>	P.S.I.		
G Final Closed-in Pressure	<u>75</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2342</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>7</u> Inc.		Breakdown: <u>9</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>42</u>	<u>0</u>	<u>33</u>	<u>0</u>	<u>46</u>	<u>0</u>	<u>41</u>
P 2 <u>5</u>	<u>33</u>	<u>3</u>	<u>33</u>	<u>5</u>	<u>38</u>	<u>3</u>	<u>42</u>
P 3 <u>10</u>	<u>33</u>	<u>6</u>	<u>36</u>	<u>10</u>	<u>43</u>	<u>6</u>	<u>45</u>
P 4 <u>15</u>	<u>33</u>	<u>9</u>	<u>39</u>	<u>15</u>	<u>41</u>	<u>9</u>	<u>49</u>
P 5 <u>20</u>	<u>33</u>	<u>12</u>	<u>42</u>	<u>20</u>	<u>41</u>	<u>12</u>	<u>52</u>
P 6 <u>25</u>	<u>33</u>	<u>15</u>	<u>46</u>	<u>25</u>	<u>41</u>	<u>15</u>	<u>57</u>
P 7 <u>30</u>	<u>33</u>	<u>18</u>	<u>50</u>	<u>30</u>	<u>41</u>	<u>18</u>	<u>61</u>
P 8		<u>21</u>	<u>53</u>	<u>35</u>	<u>41</u>	<u>21</u>	<u>68</u>
P 9		<u>24</u>	<u>58</u>			<u>24</u>	<u>73</u>
P10		<u>27</u>	<u>62</u>			<u>27</u>	<u>75</u>
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2430	2422	PSI
(B) First Initial Flow Pressure	42	42	PSI
(C) First Final Flow Pressure	42	33	PSI
(D) Initial Closed-in Pressure	63	62	PSI
(E) Second Initial Flow Pressure	53	46	PSI
(F) Second Final Flow Pressure	53	41	PSI
(G) Final Closed-in Pressure	84	75	PSI
(H) Final Hydrostatic Mud	2409	2342	PSI



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Company Rains & Williamson Oil Co., Inc. Lease & Well No. Burns #1
Elevation 2372 Kelly Bush. Formation Mississippi Effective Pay - Ft. Ticket No. 24971
Date 12-11-77 Sec. 29 Twp. 21S Range 23W County Hodgeman State Kansas
Test Approved by Harvey Gough Western Representative Ken Metzler
Formation Test No. 2 O.K. - Misrun X Interval Tested From 4612' to 4629' Total Depth 4629'
Size Main Hole 7 7/8 Rat Hole 12 1/4 Conv. - B.T. X Damaged - Yes X No Conv. - B.T. X Damaged - Yes X No
Top Packer Depth 4607 Ft. Size 6 3/4 Bottom Packer Depth 4612 Ft. Size 6 3/4
Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 17 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 4620 Ft. Clock No. 6893 Depth 4623 Ft. Clock No. 5665
Top Make Kuster Cap. 4200 No. 3354 Inside Bottom Make Kuster Cap. 4150 No. 2605 Inside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Depth - Ft. Rec. No. - Clock No. - Inside
Time Set Packer - M
Tool Open I.F.P. From - M. to - M. - Hr. - Min. From (B) - P.S.I. To (C) - P.S.I.
Tool Closed I.C.I.P. From - M. to - M. - Hr. - Min (D) - P.S.I.
Tool Open F.F.P. From - M. to - M. - Hr. - Min. From (E) - P.S.I. To (F) - P.S.I.
Tool Closed F.C.I.P. From - M. to - M. - Hr. - Min. (G) - P.S.I.
Initial Hydrostatic Pressure (A) - P.S.I. Final Hydrostatic Pressure (H) - P.S.I. Maximum Temp. 118

INFORMATION

BLOW Packer Failure. Misrun

Did Well Flow -Yes - No Recovery Total Ft. 340' mud

Reversed Out - Yes - No Mud Type Starch Viscosity 51 Weight 9.2 Water Loss 12 cc. Chlorides 30,000 ppm

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

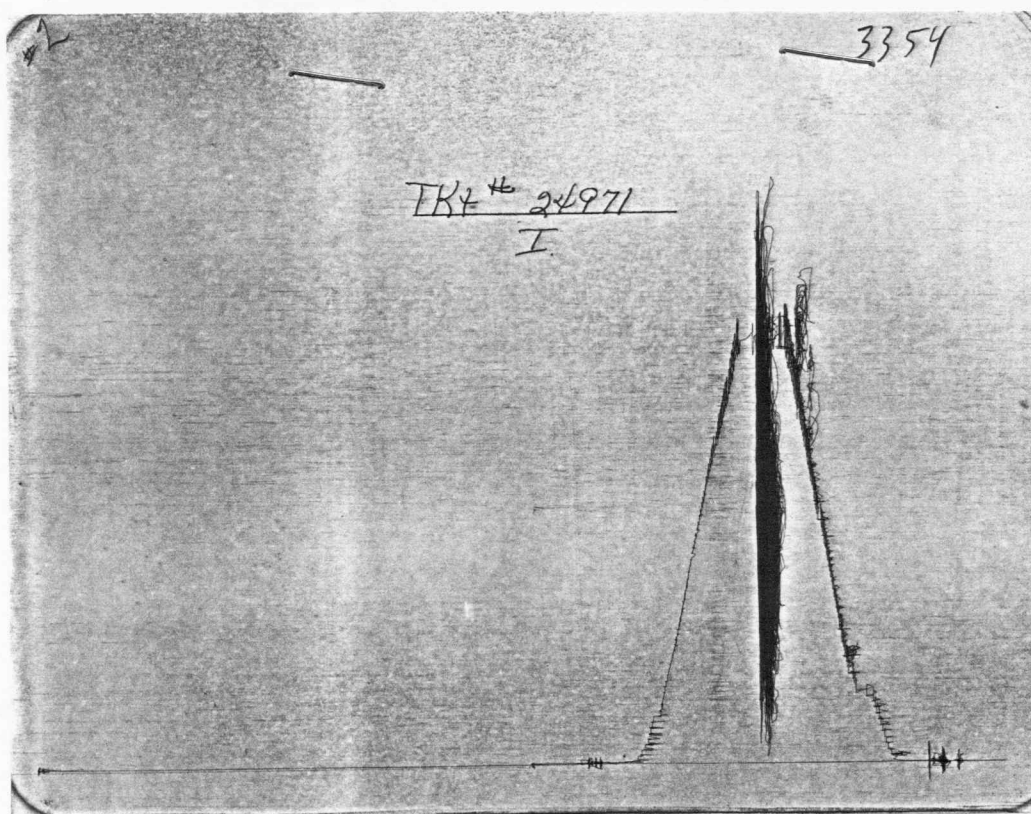
Dual Packer Yes Did Packers Hold? No Did Tool Plug? - Where? -

DRILLING CONTRACTOR Rains & Williamson #7 Length Drill Pipe? 3695 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 691 Ft. I.D. Weight Pipe 2.76 In. Tool Joint Size 4 1/2 I In. Length Drill Collars 31 Ft. I.D. Drill Collars 2.26 In.

Tool Joint Size 4H90 In. Length D.S.T. Tool 35 Ft.

Remarks: Packer Failure, lacked 7' of getting to bottom.



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	<u>Misrun, pressures not available</u>		PSI
(B) First Initial Flow Pressure			PSI
(C) First Final Flow Pressure			PSI
(D) Initial Closed-in Pressure			PSI
(E) Second Initial Flow Pressure			PSI
(F) Second Final Flow Pressure			PSI
(G) Final Closed-in Pressure			PSI
(H) Final Hydrostatic Mud			PSI



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Company Rains & Williamson Oil Co., Inc. Lease & Well No. Burns #1
Elevation 2372 Kelly Bush. Formation Mississippi Effective Pay - Ft. Ticket No. 24972
Date 12-12-77 Sec. 29 Twp. 21S Range 23W County Hodgeman State Kansas
Test Approved by Harvey Gough Western Representative Ken Metzler
Formation Test No. 3 O.K. ☒ Misrun ☐ Interval Tested From 4602' to 4629' Total Depth 4629'
Size Main Hole 7 7/8 Rat Hole 12 1/4 Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Top Packer Depth 4597 Ft. Size 6 3/4 Bottom Packer Depth 4602 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth ☐ Ft. Size ☐
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 27 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 4620 Ft. Clock No. 6893 Depth 4623 Ft. Clock No. 5665
Top Make Kuster Cap. 4200 No. 3354 Inside Outside Bottom Make Kuster Cap. 4150 No. 2605 Inside Outside
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ Inside Outside Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ Inside Outside
Time Set Packer 4:12A M
Tool Open I.F.P. From 4:15 M. to 4:45 M. - Hr. 30 Min. From (B) 68 P.S.I. To (C) 59 P.S.I.
Tool Closed I.C.I.P. From 4:45 M. to 5:15 M. - Hr. 30 Min (D) 1267 P.S.I.
Tool Open F.F.P. From 5:15 M. to 6:45 M. - Hr. 90 Min. From (E) 76 P.S.I. To (F) 82 P.S.I.
Tool Closed F.C.I.P. From 6:45 M. to 7:30 M. - Hr. 45 Min. (G) 1228 P.S.I.
Initial Hydrostatic Pressure (A) 2403 P.S.I. Final Hydrostatic Pressure (H) 2343 P.S.I. Maximum Temp. 130

INFORMATION

BLOW Very weak blow throughout test.

Did Well Flow - Yes ☒ No ☐ Recovery Total Ft. 30' watery mud, 60' mud with few spots of oil.

Reversed Out - Yes ☒ No ☐ Mud Type Starch Viscosity 48 Weight 9.2 Water Loss 12 cc. Chlorides 30,000 ppm

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint ☐ Jars: Size ☐ In. Make ☐ Ser. No. ☐

Dual Packer ☒ Did Packers Hold? ☒ Yes Did Tool Plug? ☐ No Where? ☐

DRILLING CONTRACTOR Rains & Williamson #7 Length Drill Pipe? 3695 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 691 Ft. I.D. Weight Pipe 2.76 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars 31 Ft. I.D. Drill Collars 2.26 In.

Tool Joint Size 4" H90 In. Length D.S.T. Tool 45 Ft.

Remarks:

WESTERN TESTING CO., INC.

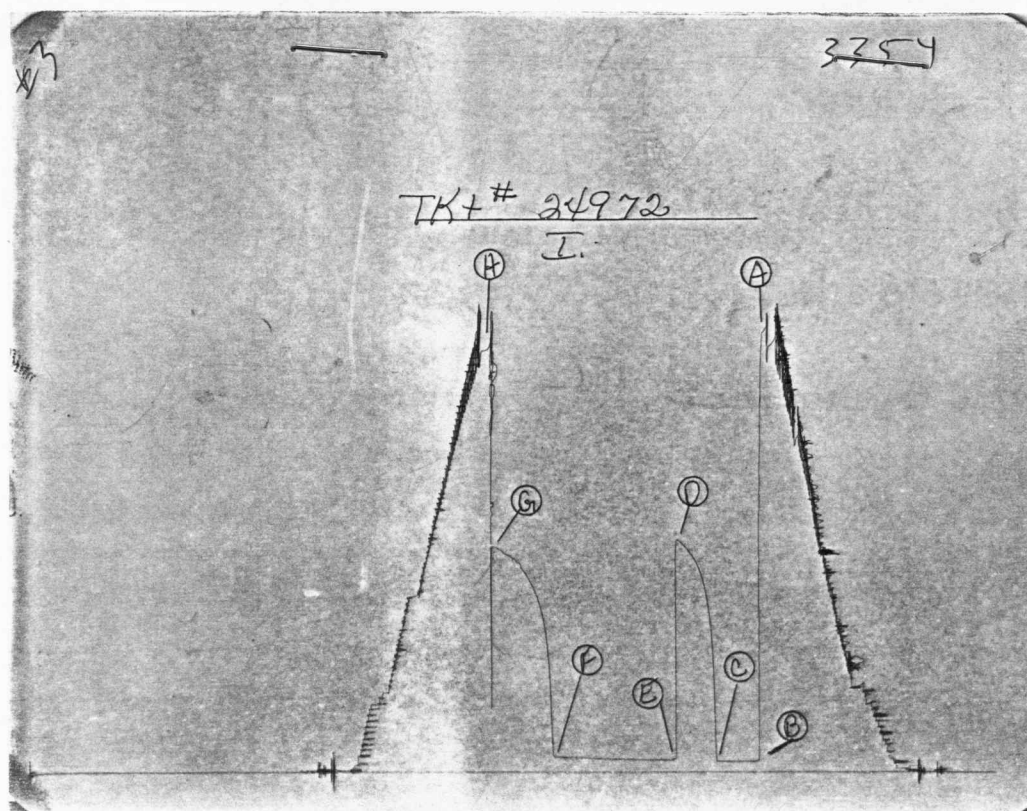
Pressure Data

Date 12-12-77 Test Ticket No. 24972
 Recorder No. 3354 Capacity 4200 Location 4620 Ft.
 Clock No. 6893 Elevation 2372 Kelly Bushing Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2403</u>	P.S.I.	<u>4:12A</u>	<u>M</u>
B First Initial Flow Pressure	<u>68</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
C First Final Flow Pressure	<u>59</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
D Initial Closed-in Pressure	<u>1267</u>	P.S.I.	<u>90</u>	<u>Mins.</u>
E Second Initial Flow Pressure	<u>76</u>	P.S.I.	<u>45</u>	<u>Mins.</u>
F Second Final Flow Pressure	<u>82</u>	P.S.I.		
G Final Closed-in Pressure	<u>1228</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2343</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>15</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>68</u>	<u>0</u>	<u>59</u>	<u>0</u>	<u>76</u>	<u>0</u>	<u>82</u>
P 2 <u>5</u>	<u>59</u>	<u>3</u>	<u>553</u>	<u>5</u>	<u>66</u>	<u>3</u>	<u>416</u>
P 3 <u>10</u>	<u>59</u>	<u>6</u>	<u>827</u>	<u>10</u>	<u>66</u>	<u>6</u>	<u>713</u>
P 4 <u>15</u>	<u>59</u>	<u>9</u>	<u>970</u>	<u>15</u>	<u>66</u>	<u>9</u>	<u>850</u>
P 5 <u>20</u>	<u>59</u>	<u>12</u>	<u>1061</u>	<u>20</u>	<u>67</u>	<u>12</u>	<u>932</u>
P 6 <u>25</u>	<u>59</u>	<u>15</u>	<u>1121</u>	<u>25</u>	<u>68</u>	<u>15</u>	<u>995</u>
P 7 <u>30</u>	<u>59</u>	<u>18</u>	<u>1166</u>	<u>30</u>	<u>70</u>	<u>18</u>	<u>1037</u>
P 8		<u>21</u>	<u>1196</u>	<u>35</u>	<u>72</u>	<u>21</u>	<u>1077</u>
P 9		<u>24</u>	<u>1226</u>	<u>40</u>	<u>72</u>	<u>24</u>	<u>1105</u>
P10		<u>27</u>	<u>1249</u>	<u>45</u>	<u>74</u>	<u>27</u>	<u>1142</u>
P11		<u>30</u>	<u>1267</u>	<u>50</u>	<u>75</u>	<u>30</u>	<u>1165</u>
P12				<u>55</u>	<u>76</u>	<u>33</u>	<u>1179</u>
P13				<u>60</u>	<u>77</u>	<u>36</u>	<u>1189</u>
P14				<u>65</u>	<u>78</u>	<u>39</u>	<u>1209</u>
P15				<u>70</u>	<u>79</u>	<u>42</u>	<u>1223</u>
P16				<u>75</u>	<u>80</u>	<u>45</u>	<u>1228</u>
P17				<u>80</u>	<u>81</u>		
P18				<u>85</u>	<u>82</u>		
P19				<u>90</u>	<u>82</u>		
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2409	2403	PSI
(B) First Initial Flow Pressure	63	68	PSI
(C) First Final Flow Pressure	63	59	PSI
(D) Initial Closed-in Pressure	1276	1267	PSI
(E) Second Initial Flow Pressure	74	76	PSI
(F) Second Final Flow Pressure	84	82	PSI
(G) Final Closed-in Pressure	1234	1228	PSI
(H) Final Hydrostatic Mud	2388	2343	PSI